

Serial No. 10/784,793

Docket No. IK-0075

Amdt. dated January 12, 2007

Reply to Office Action of November 6, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A swivel hinge, comprising:
 - a first hinge section configured to rotate about a first hinge shaft;
 - a second hinge section coupled to the first hinge section and configured to rotate about a second hinge shaft, wherein the second hinge shaft is substantially perpendicular to the first hinge shaft; ~~and~~
 - first and second magnets correspondingly provided at ~~the~~ first and second hinge sections, respectively, wherein a force is created between the first and second magnets when the first and second hinge sections are positioned in a predetermined ~~relationship~~ relationship;
 - a stopper engagement section provided at the second hinge section to rotate together with the second hinge shaft; and
 - a stopper provided at the first hinge section, wherein the stopper prevents rotation of the second hinge section but allows the second hinge section to rotate after the first hinge section has rotated by a predetermined angle around the first hinge shaft.

2. (Original) The swivel hinge of claim 1, wherein the predetermined relationship is positioned parallel to each other.

3. (Original) The swivel hinge of claim 1, wherein the second hinge section is rotatably installed at one side of the first hinge section, and wherein the second hinge shaft is moved together with the first hinge section when the first hinge section rotates about the first hinge shaft.

4. (Previously Presented) The swivel hinge of claim 1, wherein the first magnets are located on both opposite ends of the first hinge section at positions spaced apart from the second hinge shaft, and wherein the second magnets are located on both opposite ends of the second hinge section at positions spaced apart from the second hinge shaft.

5. (Previously Presented) The swivel hinge of claim 1, wherein the first magnet comprises a first plurality of magnets and two or more magnets are installed at each end of the first hinge section and the second magnet comprises a second plurality of magnets and two or more magnets are installed at each end of the second hinge section.

6. (Previously Presented) The swivel hinge of claim 1, wherein the first magnet is formed at opposite end portions of a body plate of the first hinge section and the second magnet is formed at opposite side portions of a connecting plate of the second hinge section by magnetizing the portions of the body plate and the connecting plate, respectively.

7. (Currently Amended) A portable terminal comprising:
a first section;
a second section coupled to one end of the first section and having a display;
a first hinge section rotatably coupled to the first section;
a second hinge section rotatably coupled to the second section, wherein the second hinge section is coupled to the first hinge section, and wherein the second hinge rotates in a direction different than the first hinge; and

first and second magnets provided at the first and second sections, respectively, wherein the first and second magnets operate to urge the first and second hinge sections to a position parallel to each ~~other~~other;

a stopper engagement section provided at the second hinge section to rotate together with the second hinge shaft; and

a stopper provided at the first hinge section, wherein the stopper prevents rotation of the second hinge section but allows the second hinge section to rotate after the first hinge section has rotated by a predetermined angle around the first hinge shaft.

8. (Original) The portable terminal of claim 7, wherein an attractive force is created between the first and second magnets when the first and second hinge sections are positioned in parallel to each other.

9. (Previously Presented) The portable terminal of claim 7, wherein the first magnet comprises a first plurality of magnets and two or more magnets are installed at both lateral edges of an upper side of the first section and the second magnet comprises a second plurality of magnets and two or more magnets are installed at both lateral edges of a lower side of the second section corresponding to the first magnets.

10. (Original) The portable terminal of claim 7, wherein the second hinge section is rotatably installed at one side of the first hinge section, and wherein the second hinge section is rotated together with the first hinge section when the first hinge section rotates about a first hinge axis.

11. (Previously Presented) The portable terminal of claim 7, wherein the first magnets are located on both opposite ends of the first hinge section at positions spaced apart from a second hinge shaft, and wherein the second magnets are located on both opposite ends of the second hinge section at positions spaced apart from the second hinge shaft.

12. (Previously Presented) The portable terminal of claim 7, wherein the first magnets are formed at opposite end portions of a body plate of the first hinge section and the second magnets are formed at opposite end portions of a connecting plate of the second hinge section by magnetizing the portions of the body plate and the connecting plate, respectively.

13. (Original) The portable terminal of claim 7, wherein the direction of rotation of the second hinge is substantially perpendicular to the first hinge rotation.

14. (Canceled)

15. (Currently Amended) A swivel hinge comprising:
a first hinge section configured to rotate about a first hinge shaft;

a second hinge section coupled to the first hinge section and configured to rotate about a second hinge shaft, wherein the second hinge shaft extends in a direction perpendicular to the first hinge shaft; ~~and~~

a stopper engagement section ~~and stopper respectively provided at one of the second hinge sections~~ section to rotate together with the second hinge ~~shaft~~ shaft; and

a stopper provided at the first hinge section, wherein the stopper prevents rotation of the second hinge section but allows the second hinge section to freely rotate after the first hinge section has rotated by a predetermined angle around the first hinge shaft.

16. (Currently Amended) The swivel of claim 15, wherein the stopper engagement section has an elongated plate shape with a length greater than a width and ~~locking surfaces of sides of the engagement section are sides of stopper engagement section~~ along the length contact the stopper to prevent rotation of the second hinge section when the first hinge section has not been rotated by the predetermined angle around the first hinge shaft.

17. (Currently Amended) The swivel of claim 15, wherein the stopper has a guide surface for allowing the stopper engagement section to rotate, and the guide surface of the stopper has a height allowing lower portions of the ~~locking surfaces of the stopper engagement~~

section along the length to pass beyond the guide surface when the first hinge section rotates by a predetermined angle.

18. (Original) The swivel of claim 17, wherein the guide surface is divided into a horizontal surface and an inclined surface, and an inclination angle of the inclined surface is in a range of more than 0° and not more than 60°.

19. (Original) The swivel of claim 18, wherein the first hinge section has a body plate provided at both ends thereof with the first hinge shaft having a cylindrical shape, and wherein the second hinge section has a connecting plate provided with the second hinge shaft rotatably coupled to the body plate.

20. (Original) A portable terminal comprising:

- a main body section;
- a folder section coupled to the main body section and movable from an open position where the folder section is shifted away from the main body section to a closed position where the folder section is adjacent to the main body section;
- a first hinge section rotatably coupled to the main body section;

a second hinge section coupled to the folder section, wherein the second hinge section is rotatably coupled to the first hinge section, and wherein the second hinge section rotates about a second hinge shaft extending in a direction substantially perpendicular to a first hinge shaft;

a stopper engagement section provided along the second hinge shaft to rotate together with the second hinge shaft; and

a stopper configured to restrict movement of the stopper engagement section, wherein the stopper is fixed to the main body section to restrict the second hinge section from freely rotating until the first hinge section rotates by a predetermined angle from the closed position.

21. (Previously Presented) The portable terminal of claim 20, wherein the stopper engagement section has an elongated plate shape with a length greater than a width and locking surfaces of the engagement section are at least one side of the stopper engagement section.

22. (Original) The portable terminal of claim 20, wherein the stopper is affixed to the main section between a pair of rotation guide members.

23. (Original) The portable terminal of claim 20, wherein the stopper is formed at an upper portion of the main body section with a guide surface parallel to an upper surface of the main body section, and wherein the guide surface is positioned below the stopper engagement section when the guide surface is parallel to a lower surface of the stopper engagement section.

24. (Original) The portable terminal of claim 23, wherein the guide surface of the stopper is divided into a horizontal surface and an inclined surface, and wherein an inclination angle of the inclined surface is in a range of more than 0° and not more than 60°.

25. (Original) The portable terminal of claim 23, wherein the stopper is provided at one end of a click hinge installed by passing through a center of the first hinge shaft of the first hinge section, and a fixing section is provided at one end of the click hinge for fixing the stopper to the main body section.

26. (Original) The portable terminal of claim 20, comprising:
first and second magnets correspondingly provided at first and second hinge sections, respectively, wherein an attractive force is created between the first and second magnets when the first and second hinge sections are positioned in parallel to each other.

27. (Withdrawn) A method of assembling a portable terminal, comprising:
- providing a first hinge rotatably coupled to a main body;
 - providing a second hinge connected to a display body and rotatably coupled to the first hinge, wherein the second hinge rotates in a direction different than the first hinge;
 - providing a stopper engagement section and stopper respectively on the first and second hinges, wherein the stopper allows the second hinge to freely rotate after the first hinge has rotated by a prescribed angle from a closed position; and
 - providing first and second magnets respectively on the first and second hinges, wherein the first and second magnets operate to urge the first and second hinge sections to a position parallel to each other when the second hinge freely rotates.